

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A liquid ejection apparatus comprising:
a liquid ejection head for ejecting liquid;
a cap member for receiving waste liquid discharged from the liquid ejection head;
a waste liquid tank for retaining the waste liquid;
a gear pump for drawing the waste liquid from the cap member and introducing the waste

liquid into the waste liquid tank, and

waste liquid backflow suppression means for suppressing backflow of the waste liquid to
the cap member, and

a liquid retainer that retains the liquid to be ejected and supplies the liquid to the liquid
ejection head while being pressurized by pressurized air,

wherein the waste liquid backflow suppression means is formed by a valve device, and
wherein the gear pump generates the pressurized air for pressurizing the liquid retainer.

2. (previously presented): The apparatus according to Claim 1, wherein the waste
liquid backflow suppression means is arranged between the waste liquid tank and the gear pump
or between the gear pump and the cap member.

3-4. (canceled).

5. (previously presented): A liquid ejection apparatus comprising:
a liquid ejection head for ejecting liquid;
a liquid retainer that retains the liquid to be ejected and supplies the liquid to the liquid ejection head while being pressurized by pressurized air;
a gear pump for generating the pressurized air for pressurizing the liquid retainer, and
air backflow suppression means that permits supply of the pressurized air only to the liquid retainer.

6. (previously presented): The apparatus according to Claim 5, wherein the air backflow suppression means is arranged between the liquid retainer and the gear pump or in a section upstream of the gear pump.

7. (previously presented): The apparatus according to Claim 5, wherein the air backflow suppression means is formed by a valve device.

8. (currently amended): A liquid ejection apparatus comprising:
a liquid ejection head for ejecting liquid;
a cap member for receiving the liquid ejected from the liquid ejection head as waste liquid;
a gear pump for drawing the waste liquid and the air from the cap member;
a liquid retainer having a waste liquid retainer portion for retaining the waste liquid drawn by the gear pump and receiving the air as pressurized air, and a liquid retaining portion for retaining the liquid to be supplied to the liquid ejection head using the pressurized air; and

fluid backflow suppression means for suppressing backflow of the waste liquid and the pressurized air to the cap member.

9. (previously presented): The apparatus according to Claim 8, wherein the fluid backflow suppression means is arranged between the liquid retainer and the gear pump or between the gear pump and the cap member.

10. (previously presented): The apparatus according to Claim 8, wherein the fluid backflow suppression means is formed by a valve device.

11. (currently amended): The apparatus according to Claim 10, wherein the valve device includes:

an inlet portion into which at least one of the waste liquid or the pressurized air is introduced;

an outlet portion through which the waste liquid or the pressurized air flows from the inlet portion to ~~the~~an exterior; and

a valve body for connecting the inlet portion and the outlet portion to each other if the pressure of the pressurized air is not less than a predetermined reference level, and disconnecting the inlet portion from the outlet portion if the waste liquid and the pressurized air return from the outlet portion to the inlet portion.

12. (previously presented): The apparatus according to Claim 11, wherein the valve body of the valve device connects the inlet portion and the outlet portion to each other if the

difference between the pressure in the inlet portion and the pressure in the outlet portion exceeds a predetermined reference value and disconnects the inlet portion from the outlet portion if the difference between the pressure in the inlet portion and the pressure in the outlet portion is equal to or smaller than the reference value.

13. (canceled).

14. (previously presented): The apparatus according to Claim 6, wherein the air backflow suppression means is formed by a valve device.

15. (previously presented): The apparatus according to Claim 9, wherein the air backflow suppression means is formed by a valve device.

16. (currently amended): The apparatus according to Claim [[4]]1, wherein the valve device includes:

an inlet portion into which at least one of the waste liquid or the pressurized air is introduced;

an outlet portion through which the waste liquid or the pressurized air flows from the inlet portion to ~~the~~an exterior; and

a valve body for connecting the inlet portion and the outlet portion to each other if the pressure of the pressurized air is not less than a predetermined reference level, and disconnecting the inlet portion from the outlet portion if the waste liquid and the pressurized air return from the outlet portion to the inlet portion.

17. (currently amended): The apparatus according to Claim 7, wherein the valve device includes: an inlet portion into which at least one of the waste liquid or the pressurized air is introduced;

an outlet portion through which the waste liquid or the pressurized air flows from the inlet portion to ~~the~~an exterior; and

a valve body for connecting the inlet portion and the outlet portion to each other if the pressure of the pressurized air is not less than a predetermined reference level, and disconnecting the inlet portion from the outlet portion if the waste liquid and the pressurized air return from the outlet portion to the inlet portion.

18. (previously presented): A liquid ejection apparatus comprising:

a liquid ejection head for ejecting liquid;

a liquid retainer that retains the liquid to be ejected and supplies the liquid to the liquid ejection head while being pressurized by pressurized air;

a gear pump for generating the pressurized air for pressurizing the liquid retainer, and

a valve device including an inlet portion which receives the pressurized air, an outlet portion through which the pressurized air exits the valve device for pressurizing the liquid retainer, and a valve body that places the inlet and outlet portions in fluid communication with each other if the pressure of the pressurized air is not less than a predetermined reference level, and disconnects the inlet portion from the outlet portion if pressurized air returns from the outlet portion to the inlet portion.

19. (previously presented): The apparatus according to Claim 18, wherein the valve device is arranged between the liquid retainer and the gear pump.
20. (previously presented): The apparatus according to Claim 18, wherein the valve device is arranged in a section upstream of the gear pump.